

IN THE ABSTRACT:

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ABSTRACT OF THE DISCLOSURE

A method and system feed and burn pulverized fuel, such as petroleum coke, in a glass melting furnace having burners associated with sealed regenerative chambers which act as heat exchangers. The system supplies the pulverized fuel for melting glass raw materials. The emissions of flue gases produced by the combustion process of the fuel in the furnace are controlled in order to maintain clean the flue gases and for reducing the emission of impurities from the fuel such as SO_x, NO_x, and particulates. The regenerative chambers are manufactured with selected refractories such as magnesium, zircon-silica-alumina, or magnesia and zirconium-silicate, for counteracting the erosive and corrosive effects produced by the combustion process of the fuel in the glass melting chamber. A burner feeds the petroleum coke and simultaneously mixes a primary air and pulverized fuel-air mixture for the burning of the pulverized fuel.